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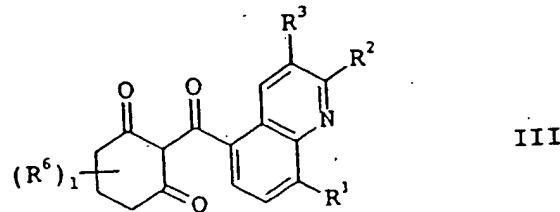
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CLEAN VERSION OF AMENDMENTS TO THE CLAIMS

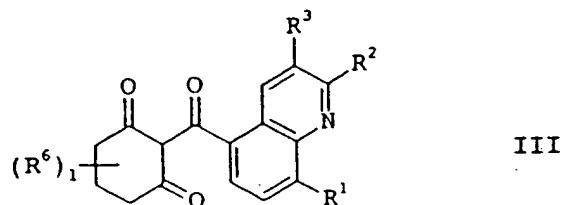
Claim 6-9 has been amended to read as follows:

6.(amended) A process for preparing compounds of the formula I as claimed in claim 1 where R^5 = halogen, which comprises reacting a cyclohexanedione derivative of the formula III,



where the variables R^1 to R^3 , R^6 and I are each as defined in claim 1, with a halogenating agent.

7.(amended) A process for preparing compounds of the formula I as claimed in claim 1 where R^5 = OR^7 , OSO_2R^8 , OPR^8R^9 , $OPOR^8R^9$ or $OPSR^8R^9$, which comprises reacting a cyclohexanedione derivative of the formula III,

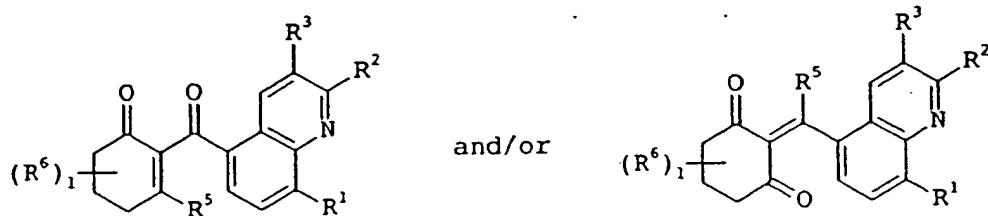


where the variables R^1 to R^3 , R^6 and I are each as defined in claim 1, with a compound of the formula IV α , IV β , IV γ , IV δ or IV ϵ ,

L^1-R^7	$L^1-SO_2R^8$	$L^1-PR^8R^9$	$L^1-POR^8R^9$	$L^1-PSR^8R^9$
(IV α)	(IV β)	(IV γ)	(IV δ)	(IV ϵ)

where the variables R⁷ to R⁹ are each as defined in claim 1 and L¹ is a nucleophilically replaceable leaving group.

8.(amended) A process for preparing compounds of the formula I as claimed in claim 1 where R⁵ = OR⁷, SR⁷, POR⁸R⁹, NR¹⁰R¹¹, ONR¹¹R¹², N-linked heterocyclyl or O-(N-linked heterocyclyl), which comprises reacting a compound of the formula I α (\equiv I where R⁵ = halogen, OSO₂R⁸),



I where R⁵ = halogen or OSO₂R⁸

where the variables R¹ to R³, R⁶ and I are each as defined in claim 1, with a compound of the formula V α , V β , V γ , V δ , V ϵ , V η , V θ ,

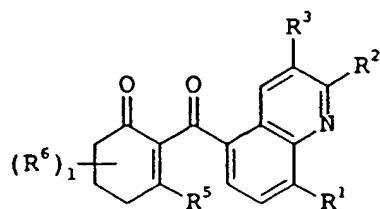
HOR ⁷ (V α)	HSR ⁷ (V β)	HPOR ⁸ R ⁹ (V γ)	HNR ¹⁰ R ¹¹ (V δ)	HONR ¹¹ R ¹² (V ϵ)
H(N-linked heterocyclyl) V η			H(ON-linked heterocyclyl) V θ	

where the variables R⁷ to R¹² are each as defined in claim 1, if appropriate in the presence of a base.

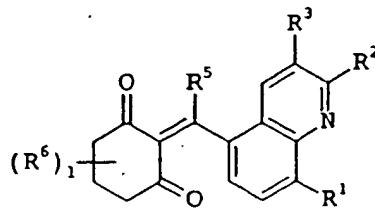
9.(amended) A process for preparing compounds of the formula I as claimed in claim

1, where $R^5 = SOR^8, SO_2R^8$, which comprises reacting a compound of the

formula I β ($\equiv I$ where $R^5 = SR^8$),



and/or



I where $R^5 = SR^8$

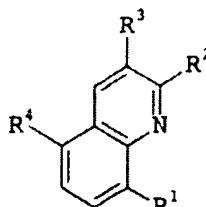
where the variables R^1 to R^8 and I are each as defined in claim 1, with an oxidizing agent.

B2

New claims 14-25 have been added, to read as follows:

B3

14.(newly added) A cyclohexenonequinolinoyl derivative of the formula I



where:

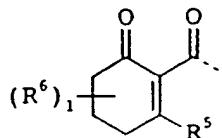
R^1 is hydrogen, nitro, halogen, cyano, C_1-C_6 -alkyl, C_1-C_6 -haloalkyl, C_1-C_6 -alkoxyiminomethyl, C_1-C_6 -alkoxy, C_1-C_6 -haloalkoxy, C_1-C_6 -alkylthio, C_1-C_6 -haloalkylthio, C_1-C_6 -alkylsulfinyl, C_1-C_6 -haloalkylsulfinyl, C_1-C_6 -alkylsulfonyl, C_1-C_6 -haloalkylsulfonyl, aminosulfonyl, $-(C_1-C_6-$

β₂ cont

alkyl)aminosulfonyl,
 N, N-di-(C₁-C₆-alkyl) aminosulfonyl,
 N-(C₁-C₆-alkylsulfonyl)amino,
 N-(C₁-C₆-haloalkylsulfonyl)amino,
 N-(C₁-C₆-alkyl)-N-(C₁-C₆-alkylsulfonyl)amino,
 N-(C₁-C₆-alkyl)-N-(C₁-C₆-haloalkylsulfonyl)amino,
 phenoxy, heterocyclyoxy, phenylthio or heterocyclithio, where the four last-mentioned radicals may be partially or fully halogenated and/or may carry one to three of the following substituents :

β₂ cont

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl,
 C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;
 R², R³ are hydrogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl or halogen;
 R⁴ is a compound IIa



where

IIa

R⁵ is halogen, OR⁷, SR⁷, SOR⁸, SO₂R⁸, OSO₂R⁸, POR⁸R⁹, OPR⁸R⁹, OPOR⁸R⁹, OPSR⁸R⁹, NR¹⁰R¹¹, ONR¹¹R¹², N-linked heterocyclyl or O-(N-linked heterocyclyl), where the heterocyclyl radical of the two last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;


R⁷

is C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-haloalkenyl,
C₃-C₆-alkynyl, C₃-C₆-haloalkynyl, C₃-C₆-cyloalkyl,
C₁-C₂₀-alkylcarbonyl, C₂-C₆-alkenylcarbonyl,
C₂-C₆-alkynylcarbonyl, C₃-C₆-cyloalkylcarbonyl,
C₁-C₆-alkoxycarbonyl, C₃-C₆-alkenyloxycarbonyl,
C₃-C₆-alkynyloxycarbonyl,
(C₁-C₂₀-alkylthio)carbonyl,
C₁-C₆-alkylaminocarbonyl,
C₃-C₆-alkenylaminocarbonyl,
C₃-C₆-alkynylaminocarbonyl,
N,N-di-(C₁-C₆-alkyl)aminocarbonyl,
N-(C₃-C₆-alkenyl)-N-(C₁-C₆-alkyl) aminocarbonyl ,
N-(C₃-C₆-alkynyl)-N-(C₁-C₆-alkyl) aminocarbonyl ,
N-(C₁-C₆-alkoxy)-
N-(C₁-C₆-alkyl) aminocarbonyl , N-(C₃-C₆-alkenyl)-
N-(C₁-C₆-alkoxy) aminocarbonyl , N-(C₃-C₆-alkynyl)-
N-(C₁-C₆-alkoxy) aminocarbonyl, di-(C₁-C₆-alkyl)-
aminothiocarbonyl, C₁-C₆-alkylcarbonyl-C₁-C₆-alkyl,
C₁-C₆-alkoxyimino-C₁-C₆-alkyl,
N-(C₁-C₆-alkylamino) imino-C₁-C₆-alkyl or
N,N-di-(C₁-C₆-alkylamino)imino-C₁-C₆-alkyl, where
the above-mentioned alkyl, cycloalkyl and alkoxy radicals may be partially
or fully halogenated and/or may carry one to three of the following groups:
cyano, C₁-C₄-alkoxy, C₁-C₄-alkylthio, di-(C₁-C₄- alkyl)amino, C₁-C₄-
alkylcarbonyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkoxy-C₁-C₄-alkoxycarbonyl,
di-(C₁-C₄-alkyl)amino-C₁-C₄-alkoxycarbonyl, hydroxycarbonyl, C₁-C₄-
alkylaminocarbonyl, di-(C₁-C₄-alkyl)aminocarbonyl, aminocarbonyl, C₁-C₄-
alkylcarbonyloxy or C₃-C₆-cycloalkyl;

B2 cont

*h
h
C
3
X
C
O
R*

phenyl, heterocyclyl phenyl-C₁-C₆-alkyl, heterocyclyl-C₁-C₆-alkyl,
phenylcarbonyl-C₁-C₆-alkyl, heterocyclylcarbonyl-C₁-C₆-alkyl,
phenylcarbonyl, heterocyclylcarbonyl, phenoxy carbonyl,
heterocycloloxy carbonyl, phenoxythiocarbonyl,
heterocycloloxythiocarbonyl, phenoxy-C₁-C₆-alkyl carbonyl,
heterocycloloxy-C₁-C₆-alkyl carbonyl, phenylaminocarbonyl, N-(C₁-C₆-
alkyl)-N-(phenyl)aminocarbonyl, heterocyclylaminocarbonyl, N-(C₁-C₆-
alkyl)-N-(heterocyclyl)aminocarbonyl, phenyl-C₂-C₆-alkenyl carbonyl or
heterocyclyl-C₂-C₆-alkenyl carbonyl, where the phenyl and the heterocyclyl
radical of the 20 last-mentioned substituents may be partially or fully
halogenated and/or may carry one to three of the following radicals:
B2 cont.
nitro, cyano, C₁-C₄-alkyl, C₁-C₄-halogenalkyl, C₁-C₄-alkoxy or C₁-C₄-
haloalkoxy;
R⁸,R⁹ are C₁-C₆-alkyl, C₃-C₆-alkenyl, C₃-C₆-haloalkenyl, C₃-C₆-alkynyl, C₃-C₆-
haloalkynyl, C₃-C₆-cycloalkyl, hydroxyl, C₁-C₆-alkoxy, amino, C₁-C₆-
alkylamino, C₁-C₆-haloalkylamino, di-(C₁-C₆-alkyl)amino or di-(C₁-C₆-
haloalkyl)amino, where the abovementioned alkyl, cycloalkyl and alkoxy
radicals may be partially or fully halogenated and/or may carry one to
three of the following groups:
cyano, C₁-C₄-alkoxy, C₁-C₄-alkylthio, di-(C₁-C₄-alkyl)amino,
C₁-C₄-alkyl carbonyl, C₁-C₄-alkoxycarbonyl, C₁-C₄-alkoxy-C₁-
C₄-alkoxycarbonyl, di-(C₁-C₄-alkyl)amino-C₁-C₄-
alkoxycarbonyl,
hydroxycarbonyl, C₁-C₄-alkylaminocarbonyl, di-(C₁-C₄-alkyl)aminocarbonyl,
aminocarbonyl, C₁-C₄-alkylcarbonyloxy or C₃-C₆-cycloalkyl;
phenyl, heterocyclyl, phenyl-C₁-C₆-alkyl, heterocyclyl-C₁-C₆-alkyl, phenoxy,
heterocycloloxy, where the phenyl and the heterocyclyl radical of the last-
mentioned substituents may be partially or fully halogenated and/or may
carry one to three of the following radicals:

 R^{10}

nitro, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy or C_1 - C_4 -haloalkoxy;
is C_1 - C_6 -alkyl, C_3 - C_6 -alkenyl, C_3 - C_6 -haloalkenyl, C_3 - C_6 -alkynyl, C_3 - C_6 -haloalkynyl, C_3 - C_6 -cycloalkyl, hydroxyl, C_1 - C_6 -alkoxy, C_3 - C_6 -alkenyloxy, C_3 - C_6 -alkynyloxy, amino, C_1 - C_6 -alkylamino, di-(C_1 - C_6 -alkyl)amino or C_1 - C_6 -alkylcarbonylamino, where the abovementioned alkyl, cycloalkyl and alkoxy radicals may be partially or fully halogenated and/or may carry one to three radicals from the following group:
cyano, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, di-(C_1 - C_4 -alkyl)amino, C_1 - C_4 -alkylcarbonyl, C_1 - C_4 -alkoxycarbonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkoxycarbonyl, di-(C_1 - C_4 -alkyl)amino- C_1 - C_4 -alkoxycarbonyl, hydroxycarbonyl, C_1 - C_4 -alkylaminocarbonyl, di-(C_1 - C_4 -alkyl)aminocarbonyl, aminocarbonyl, C_1 - C_4 -alkylcarbonyloxy or C_3 - C_6 -cycloalkyl;
phenyl, heterocyclyl, phenyl- C_1 - C_6 -alkyl or heterocyclyl- C_1 - C_6 -alkyl, where the phenyl or heterocyclyl radical of the four last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:
nitro, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy or C_1 - C_4 -haloalkoxy;

R^{11}, R^{12} are C_1 - C_6 -alkyl, C_3 - C_6 -alkenyl, C_3 - C_6 -alkynyl or C_1 - C_6 -alkylcarbonyl;

I is 0;

and their agriculturally useful salts.

15.(newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

R^1 is halogen, C_1 - C_6 -alkyl, C_1 - C_6 -haloalkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -alkylthio, heterocycloloxy or phenylthio, where the two last-mentioned radicals may be partially or fully halogenated and/or may carry one to three of the

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cont'd

substituents mentioned below:

R^5 is halogen, OR^7 , SR^7 , SOR^8 , SO_2R^8 , OSO_2R^8 , OPR^8R^9 , $OPOR^8R^9$, $OPSR^8R^9$, $NR^{10}R^{11}$ or N-bonded heterocyclyl which may be partially or fully halogenated and/or may carry one to three of the following radicals: nitro, cyano, C_1-C_4 -alkyl, C_1-C_4 -haloalkyl, C_1-C_4 -alkoxy or C_1-C_4 -haloalkoxy.

16.(newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

B2 cont

R^5 is halogen, OR^7 , $NR^{10}R^{11}$ or N-bonded heterocyclyl which may be partially or fully halogenated and/or may carry one to three of the following radicals: nitro, cyano, C_1-C_4 -alkyl, C_1-C_4 -haloalkyl, C_1-C_4 -alkoxy or C_1-C_4 -haloalkoxy.

17.(newly added) A cyclohexenonequinolinoyl derivative of the formula I as claimed in claim 14, where

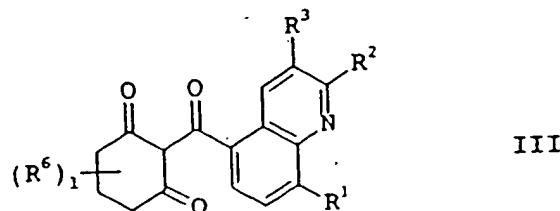
R^7 is C_1-C_6 -alkyl, C_1-C_{20} -alkylcarbonyl, C_1-C_6 -alkoxycarbonyl, $(C_1-C_{20}$ -alkylthio)carbonyl, N,N -di- $(C_1-C_6$ -alkyl)aminocarbonyl, phenyl, phenylcarbonyl or phenoxy- C_1-C_6 -alkylcarbonyl, where the phenyl radical of the three last-mentioned substituents may be partially or fully halogenated and/or may carry one to three of the following radicals:

nitro, cyano, C_1-C_4 -alkyl, C_1-C_4 -haloalkyl, C_1-C_4 -alkoxy or C_1-C_4 -haloalkoxy;

R^{10} is C_1-C_6 -alkyl or C_1-C_6 -alkoxy;

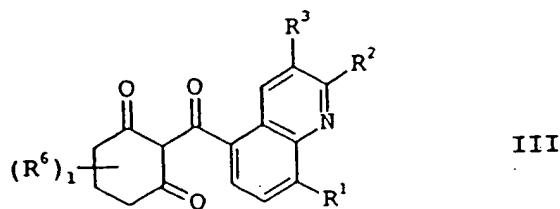
R^{11} is C_1-C_6 -alkyl.

18.(newly added) A process for preparing compounds of the formula I as claimed in claim 14 where R^5 = halogen, which comprises reacting a cyclohexanedione derivative of the formula III,

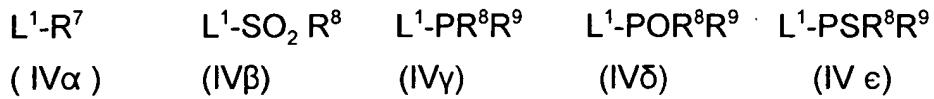


where the variables R^1 to R^3 , and I are each as defined in claim 14, with a halogenating agent.

19.(newly added) A process for preparing compounds of the formula I as claimed in claim 14 where R^5 = OR^7 , OSO_2R^8 , OPR^8R^9 , $OPOR^8R^9$ or $OPSR^8R^9$, which comprises reacting a cyclohexanedione derivative of the formula III,



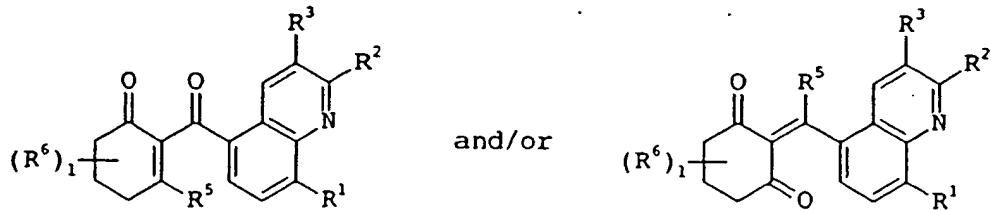
where the variables R^1 to R^3 , and I are each as defined in claim 14, with a compound of the formula IV α , IV β , IV γ , IV δ or IV ϵ ,



where the variables R^7 to R^9 are each as defined in claim 14 and L^1 is a nucleophilically replaceable leaving group.

20.(Newly added) A process for preparing compounds of the formula I as claimed in claim 14 where R^5 = OR^7 , SR^7 , POR^8R^9 , $NR^{10}R^{11}$, $ONR^{11}R^{12}$, N-linked heterocyclyl or O-(N-linked heterocyclyl), which comprises reacting a compound

of the formula $I\alpha$ ($\equiv I$ where R^5 = halogen, OSO_2R^8),



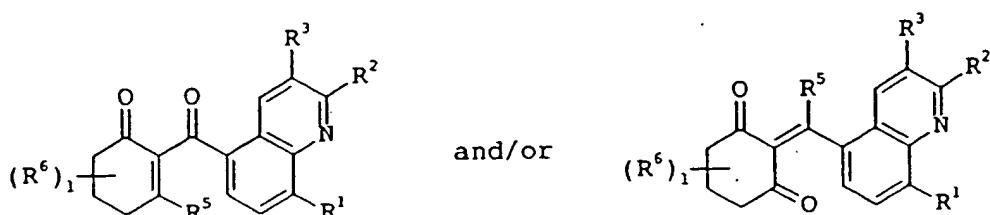
I where R^5 = halogen or OSO_2R^8

where the variables R^1 to R^3 , and I are each as defined in claim 14, with a compound of the formula $V\alpha, V\beta, V\gamma, V\delta, V\epsilon, V\eta, V\theta$,

HOR ⁷ (V α)	HSR ⁷ (V β)	HPOR ⁸ R ⁹ (V γ)	HNR ¹⁰ R ¹¹ (V δ)	HONR ¹¹ R ¹² (V ϵ)
H(N-linked heterocyclyl) V η		H(ON-linked heterocyclyl) V δ		

where the variables R^7 to R^{12} are each as defined in claim 14, if appropriate in the presence of a base.

21.(Newly added) A process for preparing compounds of the formula I as claimed in claim 14 where $R^5 = SOR^8$, SO_2R^8 , which comprises reacting a compound of the formula I β ($\equiv I$ where $R^5 = SR^8$),



I where $R^5 = SR^8$

where the variables R¹ to R⁵, R⁷, R⁸ and I are each as defined in claim 14, with an oxidizing agent.

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22.(newly added) A composition, comprising a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I as claimed in claim 14 and auxiliaries which are customarily used for formulating crop protection agents.

B2 cont
23.(newly added) A process for preparing compositions as claimed in claim 22, which comprises mixing a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I and auxiliaries which are customarily used for formulating crop protection agents.

24.(newly added) A method for controlling undesirable vegetation, which comprises allowing a herbicidally effective amount of at least one cyclohexenonequinolinoyl derivative of the formula I or an agriculturally useful salt of formula I as claimed in claim 14 to act on plants, their habitat and/or on seeds.

25.(newly added) The use of cyclohexenonequinolinoyl derivatives of the formula I or their agriculturally useful salts as claimed in claim 14 as herbicides.